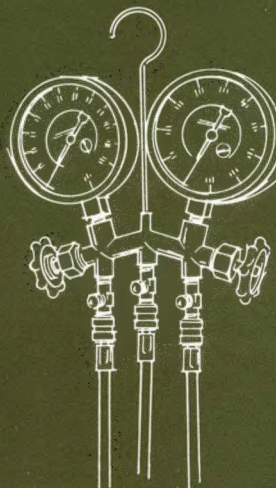
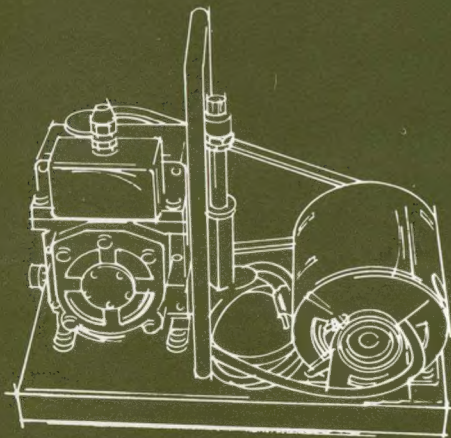
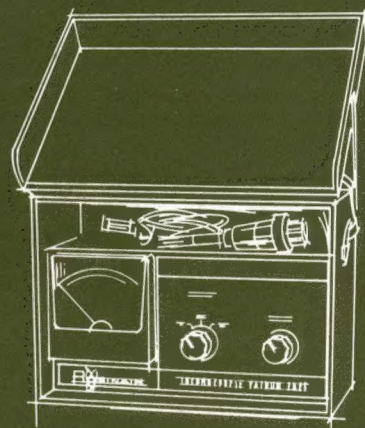


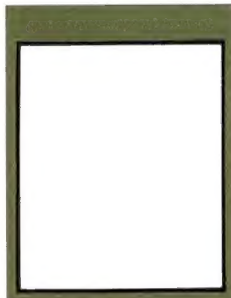
Refrigeration and Air Conditioning Service Products



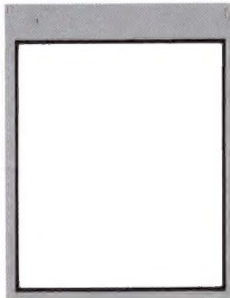


This catalog presents our top-quality Robinair service products used by servicemen to test, charge, evacuate and dehydrate refrigeration and air conditioning systems in the field. All of these products have been field-tested and factory-approved by the leading manufacturers in the industry.

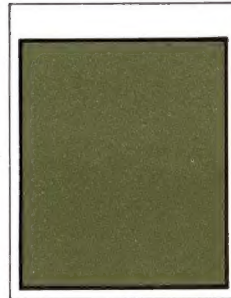
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REFRIGERATION
HAND
TOOLS



TEST
INSTRUMENTS



EVACUATING
AND DEHYDRATING
EQUIPMENT



REFRIGERATION
CHARGING
EQUIPMENT

King Size—Easy to Read 3½" Gauges

Quality construction. Big 3½" diameter gauges are easy to read. Gauges are color coded, with restriction screw, front recalibrator and scaled for refrigerants 12 and 22.

- Forged brass body, designed for rugged service yet light weight for easy handling.
- Special seat design and packing provide positive leak proof shut-off.
- Special hose holder tees are replaceable should they become damaged. These are special Tees which also act as hose holders.

Available as a basic unit with color coded gauges and hook or complete with gauges, hook and color coded lines.

No. CM-3A-2—Manifold with wheels, hose holders and hook assembled. Gauge connection ⅛". Other connections ¼" S.A.E. male flare.

No. CM-4A-3—Manifold complete with 3½" color coded gauges, wheels, hook and color coded lines.



A Real Time Saver

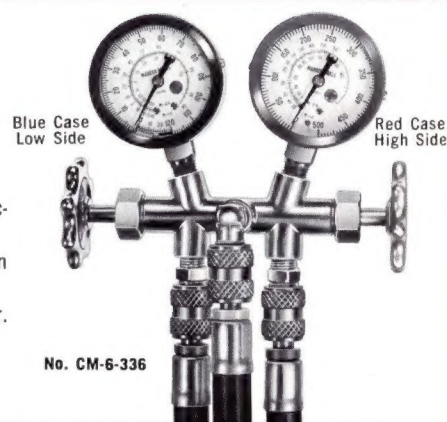
Designed to save you money by reducing the time required to service the big jobs.

- ⅜" connections and large ports for faster evacuation, charging and testing.
- Color coded gauges 2½" diameter and large ⅜" diameter color coded hoses. Manifold connections are ¼" F.P.T. Hose connections are ⅜" S.A.E. male flare. Gauge ports are ⅛" F.P.T.

No. CM-6—Outfit with 2 standard color coded gauges. Gauge connection ⅛". Hose connection ⅜" S.A.E. male flare.

No. CM-6-336—Same as above except includes 3 — 36" color coded lines with ⅜" quick coupler.

No. CM-6-360—Same as above except with 3 — 60" color coded lines with ⅜" quick coupler.



Standard Color Coded and Polished or Chrome

STANDARD

- CM-3** Manifold bar only with wheels.
CM-4 Manifold bar, with color coded gauges and wheels.
CM-4-3 Manifold bar, complete with hook, hose holder, color coded gauges and color coded 36" lines.
CM-4-15 Same as CM-4-3 except packed in metal carrying box.

POLISHED BRASS

- CM-3D** Deluxe brass manifold bar only with wheels.
CM-4D Deluxe brass manifold bar with wheels and polished brass gauges.
CM-4D-3 Deluxe brass manifold bar, complete with hook, hose holder, polished brass gauges and color coded 36" lines.
CM-4D-15 Same as CM-4D-3 except packed in metal carrying case.

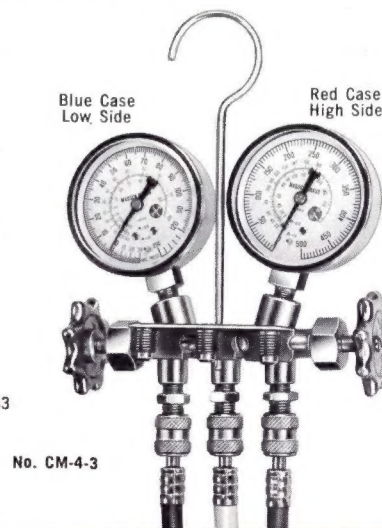
POLISHED CHROME

- CM-3C** Chrome plated manifold bar only with wheels.
CM-4C Chrome plated manifold bar with wheels and chrome plated brass gauges.
CM-4C-3 Chrome plated manifold bar, complete with hook, hose holder, chrome plated brass gauges and color coded 36" lines.
CM-4C-15 Same as CM-4C-3 except packed in metal carrying case.

The ideal unit for testing, evacuating, recharging or setting controls. Available with standard 2½" diameter color coded gauges, with POLISHED BRASS gauges or POLISHED CHROME. Gauges have restriction screw, front recalibrator and temperature scale for Refrigerant 12, 22 and 502. Compound gauges (blue case) has 30" vacuum to 250 P.S.I. range. Pressure gauge (red case) has 0 to 500 P.S.I. range. ⅛" F.P.T. gauge connections, other connections are ¼" S.A.E. male flare.

- All brass forged body, compact, light weight yet designed for rugged use.
- Special stem seats and packing design provide positive leak proof shut-off.
- Stem seats and flare connections can be replaced.
- Machined for maximum flow.

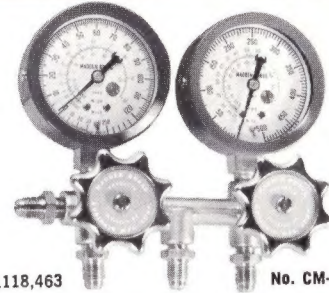
Patent No. 3,118,463



Double Port Manifold with Access Valves

Same quality construction as standard front wheel unit except it is equipped with an Access Fitting with built-in flow check valve. This 1/4" S.A.E. Male Flare Access Valve permits complete system servicing from evacuation to recharging without disconnecting any lines, thereby avoiding possible atmospheric contamination. Gauges are color coded with 1/8" M.P.T. connections. Other connections are 1/4" S.A.E. Male Flare.

- No. CM-4F-A** Manifold with front wheels, 2 1/2" color coded gauges.
No. CM-4F-A-3 Manifold with front wheels, color coded gauges, hook, hose holder and 4 color coded lines.
No. CM-4F-A-15 Same as CM-4F-A-3 except packed in metal carrying case.



Patent No. 3,118,463

No. CM-4F-A

Pressure and Compound Gauges

4 Case Finishes to Choose from: Standard Color Coded, Blue for Low Side, Red for High Side, Standard Black Enamel Steel Cases, Polished Brass, and Polished Chrome Plated.

Compound Gauge, low side 30" vacuum to 250# pressure with retard and restrictor screw to avoid pulsation and overload. 1/8" M.P.T. connection Temperature Scale for R-12, R-22 and R-502.

- CM-11692** 2 1/2" dia. dial, Blue
12947 2 1/2" dia. dial, Black
CM-11696 3 1/2" dia. dial, Blue
CM-11692-B 2 1/2" dia. dial, Polished Brass
CM-11692-C 2 1/2" dia. dial, Polished Chrome

Pressure Gauge, high side. 0 to 500# pressure with restrictor screw. 1/8" M.P.T. connection.

Temperature Scale for R-12, R-22 and R-502.

- CM-11693** 2 1/2" dia. dial, Red
12946 2 1/2" dia. dial, Black
CM-11697 3 1/2" dia. dial, Red
CM-11693-B 2 1/2" dia. dial, Polished Brass
CM-11693-C 2 1/2" dia. dial, Polished Chrome



No. CM-11692



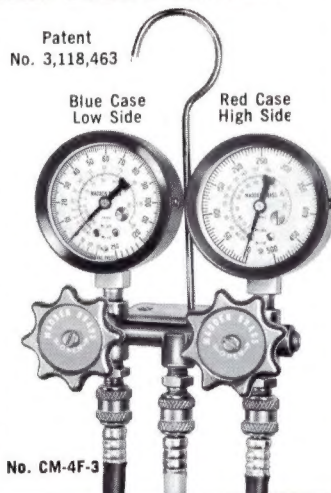
No. CM-11693

Standard Outfit With Front Wheels

Same quality construction as other manifolds except hand wheels are in front. Gauges are color coded with 1/8" M.P.T. connections. Line connections are 1/4" Male Flare.

- No. CM-3F** Manifold bar only with front wheels.
No. CM-4F Manifold bar with color coded gauges.
No. CM-4F-3 Manifold bar complete with color coded gauges, hook, hose holder and color coded lines.
No. CM-4F-15 Same as CM-4F-3, except packed in metal carrying case.

Also available in polished brass or chrome plate. For polished brass add "D" (for deluxe) suffix: Example CM-4F-D. For chrome add "C" suffix.



No. CM-4F-3

Patent No. 3,118,463

Blue Case Low Side

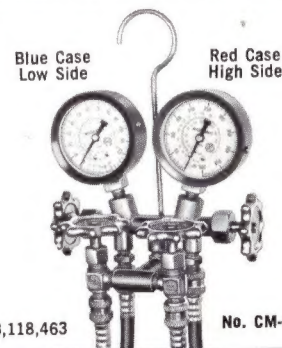
Red Case High Side

Four Way Testing Unit

With this 4-way outfit you can evacuate, charge with refrigerant or test a system without disconnecting either the vacuum line or the refrigerant supply line. Simply hook up to the refrigerant supply, the vacuum pump, the high and low sides and proceed. The valves on this 4-way outfit with their positive, leak-proof seats provide effortless control over the entire evacuation and recharging operation.

- No. CM-44** Manifold with wheels and color coded gauges.
No. CM-44-3 Manifold complete with wheels, hook, hose holder, color coded gauges and 4 color coded lines.
No. CM-44-15 Same as CM-44-3 except packed in metal carrying case.

Also available in polished brass or chrome plate. For polished brass add "D" (for deluxe) suffix: Example CM-44D. For chrome add "C" suffix.



Patent No. 3,118,463

No. CM-44-3

Four Way Conversion Kits

No. CM-1K-S

No. CM-1K

CM-1K-S allows conversion of all 1/4" standard double port units into modern 4-way manifolds.

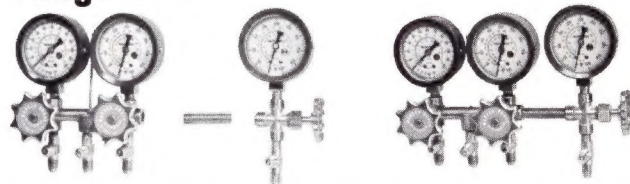
No. CM-1K-S consists of conversion elbow, 2 flow check access valves, quick coupler and 2 quick seal caps.

The **CM-1K** converts any Robinair double port manifold into a permanent 4-way unit.

No. CM-1K consists of Conversion Elbow, and 2 Service Valves. Valve connection 1/4" S.A.E. Male Flare.

No. CM-1K-C Same as CM-1K except chrome plated.

Make Your Own 3-Way Gauge Unit



Where three readings are desirable, you can quickly and easily make up your own outfit. Simply connect a Robinair front wheel unit and a single gauge unit with a 2 inch brass nipple.

Illustration shows parts which are available from your wholesaler.

REFRIGERATION HAND TOOLS

Hose Holders



Attaches to back of Double Port unit. Keeps hose dry and free from dirt when not in use.

CM-P10—Fits CM-4 and CM-4F units.

Alternate Hose Holders—Tees have blind branches. When used to replace 1/4" S.A.E. flare unions, the blind flare on branch end can be used for hose storage. Fits all manifolds.

No. T3-4A-2—One each required to replace existing hose fittings.

Handy Hanging Hook



No. CM-P12—Hook for CM-4, CM-4F and CM-44 units.

No. 10524-3—Hook for CM-3A-2 and CM-4A-3 units.

Metal Carrying Case For Testing Units



No. CM-P-15—Box only for CM-4 units.

No. CM-P-17—Box only for CM-4F and CM-44 units.

Hose Holder For CM-44 Only



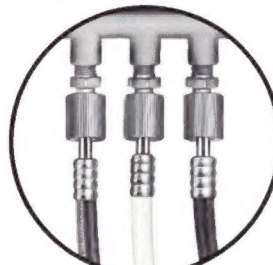
No. CM-P16—For CM-44 and CM44D.

No. CM-P16C—For CM-44C.

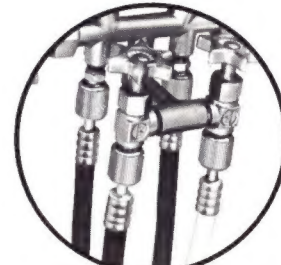
"Duo-Test" Charging Lines



SINGLE LINES



3-WAY COLOR CODED SETS



4-WAY COLOR CODED SETS

QUALITY FEATURES INCLUDE:

- All brass barb and ferrule. Long quick coupler nut for easy finger tightening.
- Improved quality rubber covered hose is extremely flexible, and impervious to common refrigerants.* Has a maximum working pressure of 500 P.S.I. and average burst pressure of 2,500 P.S.I.
- Moulded gasket is easy to replace but won't pop out. Free swiveling Quick Coupler eliminates binding or kinking of hose when tightening.
- Valve depressor furnished in elbow end of all 1/4" lines. Can be easily removed if not required or for replacement.

SINGLE CHARGING LINES

Furnished in Yellow Color with valve depressor unless other color is specified. Available also in White, Blue or Red. Available without valve depressor if specified, however, depressor is easily removed with a pair of pliers. Stocked in 36 and 60 inch lengths. Special lengths available on order. 1/4" Quick Couplers.

- No. CH-36E-1** 36 inch length with valve depressor in elbow end.
No. CH-60E-1 60 inch length with valve depressor in elbow end.
No. CH-109 Replacement Gasket.

COLOR CODED SETS

Color coding eliminates line tracing during testing, evacuation or recharging. Speeds up service work, cuts costs. Packaged in sets in dust-proof polyethylene bags. Each line has valve depressor in elbow end.

3-Way Color Coded Sets

No. CH-36CC-1 Consists of 3 — 36 inch Quality rubber covered lines. One each, white, blue and red.

4-Way Color Coded Sets

For use with 4-way Testing Units, Yellow for Vacuum, White for Charge, Blue for Low Side, Red for High Side.

No. CH-36CC-4 4 — 36 inch color coded lines.

No. CH-109. Replacement gaskets for above.

*Continuous service on Sulfur Dioxide will cause permeation. Purging of line is recommended after each use with Sulfur Dioxide.

Heavy Duty Lines



For R-22 intermittent charging and testing. Recommended for permanent application with R-12. These lines are of heavy construction, will not collapse under high vacuum and will provide long and reliable service. Maximum working pressure of 500 P.S.I. and average burst pressure of 3,000 P.S.I.

- No. CH-36E-22** 36 in. line with 1/4" S.A.E. Quick Coupler on one end.
No. CH-60E-22 Same as above except 60 inches long.
No. CH-109 Replacement Gasket.

Large Diameter Hose

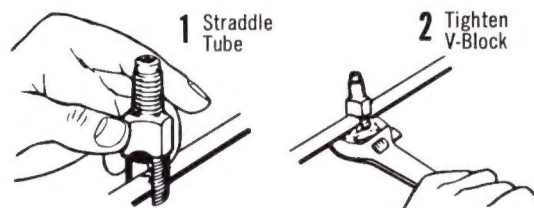


Recommended if faster evacuation or transfer of refrigerant is desired. Heavy construction but flexible, with long service rubber outer covering. Have 3/8" S.A.E. Quick Couplers. Special lengths available on order.

- No. CH6-36** 36 inch line with 3/8" straight Quick Couplers.
No. CH6-60 Same as above except 60 inches long.
No. CH6-336 3 — 36 inch lines color coded. 1 ea. White, Blue, Red.
No. CH6-360 3 — 60 inch lines color coded. 1 ea. White, Blue, Red.
No. CH-110 Replacement Gaskets.

Tube Piercing Valves PAT. NO. 2,875,777

Engineered for Convenience, Durability, and Dependability — Easy 2-step installation.



Simple application eliminates:

1. Screws, nuts or bolts
2. Special control devices
3. Special wrenches or handles
4. All guesswork . . . is it open . . . is it closed . . . how many turns?

All HP and QP valves are furnished with Quick Seal Caps for double protection.

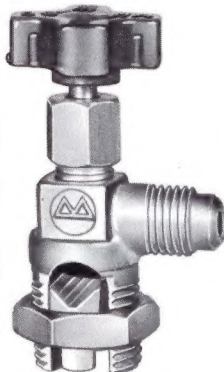
The Preferred Tube Piercing Valve

Redesigned Forged Brass Body!

Improved Nut and Wedge Assembly

No Special Tools Required

No. HP-41



Robinair HP Valves are used more than any other similar valve because they are the most trouble free and easiest to use. No special tools or parts are required.

They can be installed in any position, even while system is under pressure, on copper, aluminum, thin wall brass tube, wherever air, liquid or gas flow is required. Use in refrigeration for testing, in industry for controlling water to humidifiers and many other applications. One piece forged brass body construction.

One valve fits $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ " O.D. Tube Sizes.

No. HP-41 Fits $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ " O.D. Tube. $\frac{1}{4}$ " S.A.E. Conn. Size.

No. HP-68 Fits $\frac{3}{8}$ ", $\frac{7}{16}$ " and $\frac{1}{2}$ " O.D. Tube. $\frac{1}{4}$ " S.A.E. Conn. Size.

No. HP-810 Fits $\frac{1}{2}$ ", $\frac{5}{8}$ " and $\frac{3}{4}$ " O.D. Tube. $\frac{1}{4}$ " S.A.E. Conn. Size.

No. HP-41-6 Seal Gasket for HP-41.

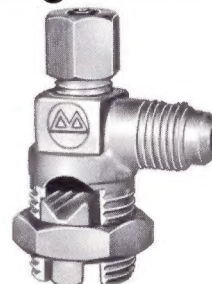
No. HP-68-6 Seal Gasket for HP-68.

No. HP-810-6 Seal Gasket for HP-810.

Tamper-Proof Tube Piercing Valve

All Brass Forged Bodies

No. HP-41A



Designed to prevent tampering once it is installed. Requires standard $\frac{3}{32}$ " Allen wrench for opening and closing, furnished with each valve. Same high quality construction and features as models listed above.

No. HP-41-A Fits $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ " O.D. Tube. $\frac{1}{4}$ " S.A.E. Conn. Size.

No. HP-41-6 Seal Gasket.

The QP Tube Piercing Valves

PAT. NO. 2,875,777

Features Special Built-In Refrigerant Check

This valve features a special built-in flow check and has same high quality and features as other models. It is designed specially for refrigeration use, but is suitable for similar applications in other industry. Valve is open only when unit is serviced with charging line or quick coupler having a valve depressor. 2 models fit 6 tube sizes. For use on copper, aluminum or thin wall brass tubing.

No. QP-14 Fits $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ " O.D. Tube. $\frac{1}{4}$ " S.A.E. Conn. Size.

No. HP-41-6 Seal Gasket for QP-14.

No. QP-810 Fits $\frac{1}{2}$ " and $\frac{5}{8}$ " O.D. Tube. $\frac{1}{4}$ " S.A.E. Conn. Size.

No. HP-810-6 Seal Gasket for QP-810.

No. 4620-4 Replacement Quick Seal Cap for both QP-14 and QP-810

No. QP-14

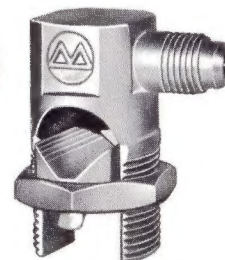
No. QP-810

Easiest to Use!

No Special Tools Required



Fits $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ " O.D. Tube



One Valve Fits $\frac{1}{2}$ ", $\frac{5}{8}$ " O.D. Tube Sizes

Access Fittings

These Access Fittings, in the sizes and styles now available, make it possible to quickly and inexpensively install a permanent access port on any refrigeration system. May be installed on either high side or low side for testing, evacuating or charging R-12 or R-22 systems. These access fittings are suitable also for bleeder valves or other similar industrial applications. Servicing through these fittings is accomplished with Robinair Charging Lines equipped with valve depressors or with our 4610-S4 or 4615-S4 Quick Couplers. They can also be serviced through use of our Robinair 10515 Tool for removing and replacing the access valve core; this tool attaches to the access and removes the core and holds it back out of the fitting. This provides full flow through the fitting and can reduce evacuating and recharging time by as much as 60%.

ALL FITTINGS HAVE 1/4" S.A.E. MALE FLARE VALVE CONNECTIONS

ALL FITTINGS ARE FURNISHED WITH QUICK SEAL CAPS

Now 8 Styles to Fit Your Needs

VT3-4A Access on Branch — 1/4" S.A.E. Male Flare and 1/4" M.P.T. on run.

Above Access Fittings also available with N5-4 Flare Seal Cap and Copper Gasket. Specify on your order "With N5-4 Caps."



HALF UNION TYPE

VU1-4A 1/8 MPT or 1/4 OD Solder
VU1-4B 1/4 MPT or 3/8 OD Solder



MALE FLARE UNION WITH FORGED NUT
VU2-4 For 1/4 OD Flared Tube



ACCESS ON BRANCH
VT3-4A For 1/4" S.A.E. Male Flare and 1/4" M.P.T. on run



FEMALE FLARE COUPLING WITH COPPER GASKET
VUR3-44 For 1/4 Male Flare Conn.



SOLDER UNION TYPE
VUS3-2 1/8 OD Copper Tube Extension



SOLDER UNION TYPE

VUS3-34 For 3/8 OD Tube or 1/4 Solder Fitting
VUS3-46 For 1/4 OD Tube or 3/8 Solder Fitting
VUS3-58 For 3/8 OD Tube or 1/2 Solder Fitting
VUS3-68 For 3/8 OD Tube or 1/2 Solder Fitting

VUS3-346 For 3/8 OD Tube or 1/4 and 3/8 Solder Fitting



STANDARD SOLDER TYPE TEE — ACCESS ON BRANCH

VT2-4 For 1/4 OD Tube or 3/8 Solder Fitting
VT2-5 For 3/8 OD Tube or 3/8 Solder Fitting
VT2-6 For 3/8 OD Tube or 1/2 Solder Fitting



SWIVEL TEE 1/4" FLARE TYPE — 2 ENDS MALE FLARE, ONE END FEMALE FLARE SWIVEL

VTS4-4 Access on Branch — Female Swivel on One End of Run

VTS6-4 Access on One End of Run, Female Swivel on Branch

NOTE: ALL MADDEN ACCESS FITTINGS AVAILABLE WITH STANDARD N5-4 FLARE SEAL CAP AND COPPER SEAL GASKET. SIMPLY SPECIFY ON YOUR ORDERS "WITH N5-4 CAPS."

Quick Seal Caps

Quick, sure, finger tight sealing of 1/4" and 3/8" male flare connections. No wrenches or pliers required. Uses same gaskets as used on Robinair Charging Lines and Quick Couplers.

No. 4620-4 1/4" S.A.E. Quick Seal Cap.
No. CH-109 Replacement Gasket for Above.
No. 4620-6 3/8" S.A.E. Quick Seal Cap.
No. CH-110 Replacement Gasket for Above.



Brass Valve Core Remover With 6 Extra Cores



No. V-6301 Core Remover with storage for 6 cores.

REPLACEMENT VALVE CORE

Fits All Access Fittings
No. VC-5344



VALVE CORE REMOVER
No. V-6300



Refrigeration Service Aids

Quick Coupler Valve Opener Type

1/4" S.A.E. Flare Connections — Straight on Elbow

No. 4610-S4 Straight.
No. 4615-S4 Elbow.
No. CH-109 Replacement Gasket.
No. 4615-2 Elbow without valve opener.
No. 4610-2 Straight without valve opener.

These adapters are designed to upset "Schrader" type access valves. 4610-S4 and 4615-S4 adapt to 1/4" S.A.E. 4610-4A adapts to 3/8" M.P.T.



4615-6

Gauge Quick Coupler With Valve Opener



1/4" S.A.E. Female Flare Quick Coupler
No. 4610-4A 3/8" F.P.T. Quick Coupler.
No. CH-109 Replacement Gasket.

Valve for Single Gauge Testing Unit



No. CM-1

Forged Brass Body, Nylon seat and Teflon packing. Gauge connection 3/8" F.P.T. Other connections 1/4" S.A.E. Male Flare. Complete with No. CM-1 Single Gauge Unit Valve.

Gauge With Valve



Consists of standard forged brass valve with 2 1/2" color coded Red pressure gauge CM-11693, 0 to 500 P.S.I. Valve connection 1/4" S.A.E. Male Flare.
No. CM-2 Test unit with pressure gauge.

Gauge With Valve



Consists of standard forged brass valve with 2 1/2" color coded Blue compound gauge CM-11692, 30" vacuum to 250 P.S.I. Valve connection 1/4" S.A.E. Male Flare.
No. CM-2-A Test unit with compound gauge.

Refrigerant Can Dispensing Valve



For Spud Screw Top Cans. Has all brass forged body, sturdy metal hand wheel, hardened tool steel piercing needle and Zytel seat for positive leak proof shut-off. Use on screw top cans only.

No. CAC-10 Refrigerant Can Valve, 1/4" S.A.E. Male Flare Connection.

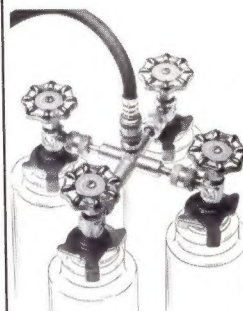
CT-11001 Taps-All Valve

PAT. PENDING



Fits all flat top or threaded top cans. Installed in a second by simply pressing the cam type locking device. Positive cam action locking device insures against accidental blow-off. Unit has quality forged brass valve body, hardened tool steel piercing needle, rugged metal handle and replaceable gasket.

Multiple Can Dispensing Valve



This unit provides a quick and convenient means for charging one to four cans at a time. Refrigerant can be dispensed from one can at a time or from all four simultaneously. Valves contained in this unit

are the model CT-11001 which fit all cans either flat or spud screw top. Valves attach by means of 1/4" Quick Couplers. Hose connection is 1/4" S.A.E. Male Flare.

No. CT-11004 Multi-Can Dispensing Valve.

Quick Test Service Aids

CONVENIENT TO USE, SAVE TIME, SAVE MONEY

Designed for quick easy pressure checking with practically no loss of refrigerant. Possible to obtain readings even when refrigerant charge

is critical without loss. Very convenient to use on system where our Access Valves or HP or QP valves have been installed. A 12 inch charging line is included for use in close quarters where gauge cannot be directly connected.

Low Side Test Gauge Kit



Kit contains a CM11692 Compound Gauge with 4610-4A Coupler, 12-inch Charging Line and Quick Seal Cap in CMP-19 Metal Box. Hose connection is 1/4" male flare x 1/4" female flare Quick Coupler.

No. CM-92 Complete Kit
No. CM-94 Compound Gauge and Coupler Only
No. CMP-19 Metal Box Only

High Side Test Gauge Kit



Kit contains a CM11693 Pressure Gauge with 4610-4A Coupler, 12-inch Charging Line and Quick Seal Cap in CMP-19 Metal Box. Hose connection is 1/4" male flare x 1/4" female flare Quick Coupler.

No. CM-93 Complete Kit
No. CM-95 Pressure Gauge and Coupler Only
No. CMP-19 Metal Box Only

Gauge Coupler



Designed for direct hook-up to gauge. 1/4" S.A.E. female flare Quick Coupler x 1/8" or 1/4" F.P.T.
No. 4610-4A 1/8" F.P.T.
No. 4610-4B 1/4" F.P.T.

Gauge Cocks



POLISHED BRASS TEE HANDLE
No. V348T-A 1/8" F.P.T. x 1/8" M.P.T.
No. V348T-B 1/4" F.P.T. x 1/4" M.P.T.



POLISHED BRASS LEVER HANDLE
No. V348-A 1/8" F.P.T. x 1/8" M.P.T.
No. V348-B 1/4" F.P.T. x 1/4" M.P.T.

Quick Coupler Valve



Designed for use between charging hose and gauge. Quick Coupler feature permits fast finger-tight connection. 1/4" S.A.E. female flare Quick Coupler x 1/8" F.P.T.
No. VQF-4AS Gauge Valve 1/8" F.P.T. x 1/4" Flare Quick Coupler.

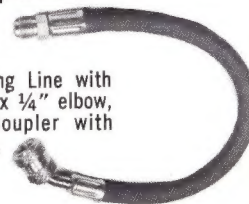
Illustration shows application of VQF-4AS Quick Coupler Valve

Gauge Hose



Designed for direct hook-up to gauge. 12 inch line has 1/8" F.P.T. on one end x 1/4" female flare Quick Coupler elbow with valve depressor.
No. CH-12E-4A

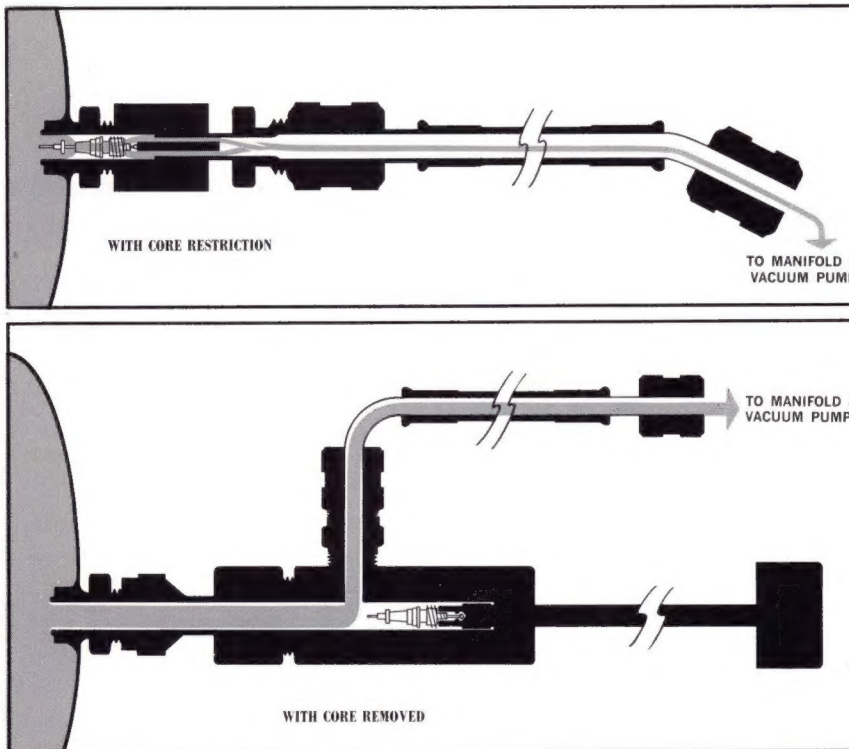
Gauge Coupler Hose



12 inch Charging Line with 1/4" Male Flare x 1/4" elbow, S.A.E. Quick Coupler with valve depressor.
No. CH-12E-M

Access Valve Core Remover and Replacer

Designed specifically for use when evacuating or recharging any system using "Schrader" type access valves. This tool removes the valve core and holds it back out of the way, inside of tool to eliminate restriction and provide full flow. Use of this tool makes it possible to evacuate and recharge in half the time normally required. Replacement "O" Rings furnished with tool.



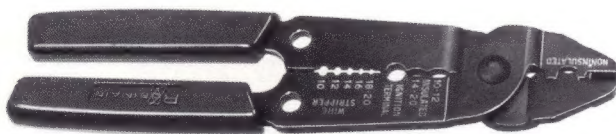
A. With core upset method a considerable restriction results, slowing down evacuation and recharging.

B. The "core removal" method provides maximum flow greatly reducing the time required to perform this important service operation.



No. 10515
Access Valve Core
Remover and Replacer

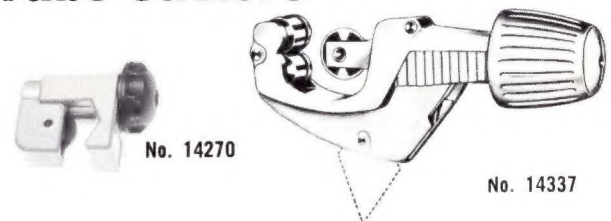
Hand Crimping Tool



No. 14226 Crimping Tool.

A quality tool for crimping insulated terminals on wire sizes 10 to 12 and 14 to 20 and all sizes of non-insulated terminals. Non-insulated terminals are crimped with a "B" crimp to assure positive contact. This tool will also crimp ignition terminals and strips wire from size 10 through 20. Tool has cushioned hand grips.

Tube Cutters



No. 14270 Midget Tube Cutter $\frac{1}{8}$ " through $\frac{1}{2}$ "
Compact and easy to use. Accurately cuts hard and soft tubing $\frac{1}{8}$ " through $\frac{1}{2}$ " O.D. Ideal for close quarters, requires only $\frac{1}{4}$ " clearance.

No. 14270-1 Replacement Cutter Wheel and Screw.

No. 14337 Tubing Cutter.

A high quality tool designed for long life and effortless performance. Cutter wheel is replaceable. Features flare cut-off and includes deburring tool. Cuts $\frac{3}{16}$ " through $1\frac{1}{8}$ " O.D. tubing.

No. 14337-1 Replacement Cutter Wheel and Screw.

Swedging Tool Sets

Swedging Tools are made of fatigue-proof steel with precision ground, bright chrome finish. Clamp tubing in holding bar and drive tool into tubing to the shoulder of the tool. Clean, solder joint and the job is done. Swedging Tools and holders may be ordered individually or in sets.



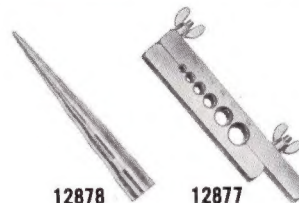
12762

12764

12766

12877

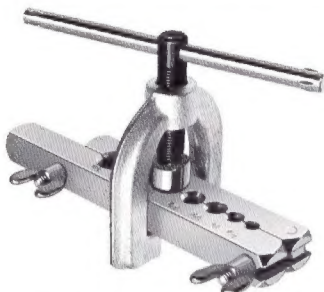
Number	Description
12877	Holding Bar for $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " Tube
12762	Swedging Tool, Expands $\frac{3}{16}$ " and $\frac{1}{4}$ " Tube
12764	Swedging Tool, Expands $\frac{5}{16}$ " and $\frac{3}{8}$ " Tube
12766	Swedging Tool, Expands $\frac{1}{2}$ " and $\frac{5}{8}$ " Tube
Number	Description
12768	Complete Set, consists of one each of the above
12479	Swedging Tool, Expands $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " Tube
12878	Consists of one no. 12479 and one no. 12877 Holding Bar



12878

12877

Flaring Tool



The forged compression yoke of this tool slips on easily and quickly. Has swivel cone on compressor and sliding tee handle. Makes accurate S.A.E. flares on 7 sizes— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " O.D. Tubing.

Number	Description
14314	Flaring Tool Complete
14314-1	Flaring Bar Only
14314-2	Compressor Yoke Only

Standard Style Swedging Tool



This tool simplifies enlarging one end of tube so that two pieces of the same size tube can be soldered together. Sizes plainly marked on each tool for identification. Gauge lines insure uniform, accurate work.

Number	Description
14312-1	for $\frac{3}{16}$ " O.D. Tube
14312-2	for $\frac{1}{4}$ " O.D. Tube
14312-3	for $\frac{5}{16}$ " O.D. Tube
14312-4	for $\frac{3}{8}$ " O.D. Tube
14312-6	for $\frac{1}{2}$ " O.D. Tube
14312-7	for $\frac{5}{8}$ " O.D. Tube
14312-8	for $\frac{3}{4}$ " O.D. Tube

SWEDGING TOOL SETS

Number	Description
14313	Contains one each $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ "
14312	Contains one each of all 7 sizes
14315	Contains 14314-1 Flaring Bar, 14337 Tube Cutter and one each $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " Swedging Tools
14316	Same as 14315 but less Tube Cutter
14317	Same as 14316 except one each of six sizes— $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ " Swedging Tools

Tube Benders— Outside Spring Type



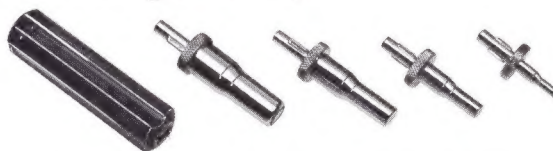
Made of Special coil spring wire. Slips over outside of tubing making it easy to bend by hand without collapsing the tube. Flared end assures easy removal after tube has been bent.

Number	Description
12382	$\frac{1}{4}$ " Tube Bending Spring
12383	$\frac{5}{16}$ " Tube Bending Spring
12384	$\frac{3}{8}$ " Tube Bending Spring
12385	$\frac{7}{16}$ " Tube Bending Spring
12386	$\frac{1}{2}$ " Tube Bending Spring
12387	$\frac{5}{8}$ " Tube Bending Spring
14318	$\frac{3}{4}$ " Tube Bending Spring

BENDING SPRING SETS

14319	one each $\frac{1}{2}$ " and $\frac{5}{8}$ "
14320	one each $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ "
14321	one each all 7 sizes

Swedging Kit with Interchangeable Tips



This kit of tools was designed for convenience and ease of use. It has interchangeable tips in the 4 most widely used sizes, $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ ". Light, tough plastic handle will take a lot of hard use.

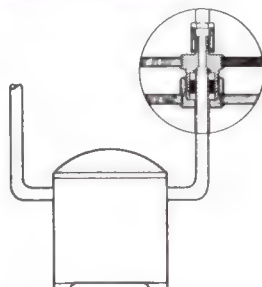
No. 14311 Kit consists of handle and 4 interchangeable tips.

Process Tube Fitting



No. 12458

Adapts $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", and $\frac{3}{8}$ " Copper Tubing to a Charging Hose



Designed to provide the fastest and easiest means of connecting charging lines to process tubes for evacuating and recharging a system. Design assures an absolute seal between tubing and charging hose. Eliminates flaring and the possibility of tube chips getting into the system. Simply cut off process tube seals, insert tube into proper size adapter, tighten to seal, attach charging line, evacuate and recharge. After recharging use companion tool 12396 Pinch-Off Tool to crimp tubing. Remove Process Fitting and solder the end of the process stub.

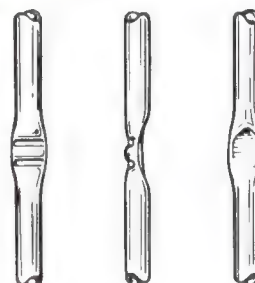
No. 12458 Process Tube Adapter Kit, Adapts $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ " and $\frac{3}{8}$ " Tubing to Charging Hose

Positive Pinch-Off On Tubing Through $\frac{3}{8}$ " O.D.



No. 12396

Patent No. 3,078,904



The only Pinch-Off Tool available to provide the field serviceman with a seal that duplicates the factory seal. The tool's unique design employs screw-type action, with ball bearings accepting the thrust for thread safety and ease of operation. Turn the screw with the handle provided or with a ratchet wrench and the tube is easily depressed to a positive pinch-off without being weakened, cut or perforated. It is ideal for closing off compressor process tubes and is a companion to the No. 12458 Process Tube Kit.

Snap Ring Pliers



14161
Internal Snap
Ring Pliers #21



14162
External Snap
Ring Pliers #22



14163
Internal Snap
Ring Pliers #23



14168
External Snap
Ring Pliers #26

Number	Description
14161	#21 Internal Field Pliers
14162	#22 External Field Pliers
14163	#23 Internal Field Pliers
14164	#24 External Field Pliers
14165	#25 Internal Field Pliers
14166	#26 External Field Pliers
14167	#21 Internal with 45° Tips
14168	#22 External with 45° Tips
14169	#12 Convertible Internal & External Pliers
14170	#34 Convertible Internal & External Pliers

Three Lead-Dual Range Temperature Tester For All Refrigerator Servicemen

ACCURACY: Between -40° to $+40^{\circ}$ of scale $\pm 2^{\circ}\text{F}$. Balance of scale $\pm 4^{\circ}\text{F}$.

METER: $3\frac{1}{2}''$

DUAL RANGE: (-50° + 50°F .
+ 50° + 150°F .)

A temperature tester with the accuracy and ranges that will handle any application met by a refrigeration service technician today. • This thermistor type instrument provides fine accuracy, covers a wide range of temperatures. • Three lead features permits checking temperatures in three different locations by a turn of the position switch. • An unusually fine tester for appliance servicemen desiring to check the temperature of a refrigerator, freezer compartment, food compartment and produce compartment. • Also ideal for the auto mechanic to determine whether or not an air conditioner is providing constant cooling throughout the car and the temperature of the air inside the car in relationship to ambient temperature.

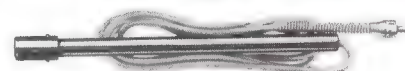
This tester comes equipped with three 12860-1 general purpose leads and has available two additional optional leads. The 12860-2 Surface Lead will sense surface temperature five times as fast as the general lead. The 12860-3 Free Air Lead, with its exposed thermistor protected by a plastic slotted cap, will sense still air temperature in one minute and moving air from a blower or air duct in three to five seconds. General purpose leads are also available in 30, 50, 100, 150 foot lengths.



12860
(-50° + 150°F .)



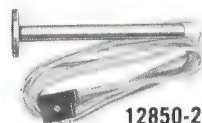
12860-2



12860-3

Universal Thermocouple Temp-Tester

12850
(0° + 650°F .) and (0° + 340°C)



12850-2



12850-3



ACCURACY: $\pm 2\%$ of full scale

METER: $3\frac{1}{2}''$

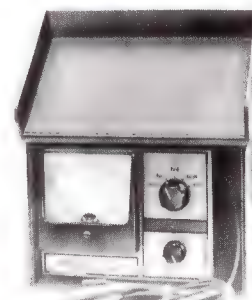
A temp-tester for the appliance serviceman making home service calls on ranges, dryers, hot water heaters, etc., and shops repairing toasters, irons, fry pans, coffee makers, etc. It automatically adjusts for room temperature and has a thermocouple (iron-constantan) type lead which provides fine accuracy when checking high temperatures.

The four foot iron-constantan thermocouple wire lead has enamel and felted asbestos on each conductor, glass braid over both and stainless steel woven overbraid jacket. Because of its plug-in feature, additional optional leads are available to provide a wide range of applications.

With its large ($3.5''$) easy to read meter, tough texon carrying case and rugged interchangeable thermocouple lead this instrument represents top value throughout.

The instrument comes equipped with a 12850-1 General Purpose Air Lead suited for taking temperatures in ovens, dryers, furnaces, etc. The 12850-2 Surface Lead will accurately sense the temperature of range elements, irons, toasters, fry pans, etc., and the 12850-3 Liquid Lead is fine for determining temperatures of water in washers, dishwashers, hot water heaters, etc.

Ohm Meter



12855

ACCURACY: $\pm 3^{\circ}$ of arc

METER: $3\frac{1}{2}''$

SPECIFICATIONS:

Range: 0 to 500,000 ohms

Scales: 0 to 500, 0 to 5000, 0 to 50,000 and
0 to 500,000 ohms

Center Scales: 10, 100, 1000, 10,000 ohms

This single purpose instrument with its wide range and multiple scales provides fine accuracy while checking resistance measurements in a number of products found in the appliance industry. It can be used by the repairman servicing ranges to check the resistance of an element as well as by the repairman servicing compressors to check out resistance of windings. It is truly a high quality versatile instrument and represents a fine buy for all servicemen.

Volt-Ohm Meter

ACCURACY: Volts AC Range $\pm 5\%$ of scale
Volts DC Range $\pm 3\%$ of scale
Ohms $\pm 3^\circ$ of arc

METER: $3\frac{1}{2}''$

SPECIFICATIONS:

Volts Two range
150 VAC—300 VAC
150 VDC—300 VDC
Ohms Range: 0 to 5000 ohms
Scales: 0 to 500, 0 to 5000
Center Scales: 25—250

This special test instrument has been designed for field servicemen making home repair calls on major appliances such as refrigerators, freezers, ranges, dishwashers, etc. It is a dual instrument that permits checking both voltage and resistance measurements. With its two voltage scales, it can check both AC and DC 150V and 300V line currents. Its two ohm scales (0-500 with 25 ohm center and 0-5000 with 250 ohm center) will handle a wide range of resistance measurements. With its tough texon self-contained carrying case, $3\frac{1}{2}''$ easy to read meter and flexible 5' leads and probes, it is a handy instrument for servicemen to have on home service calls.



12723

Volt Wattmeter

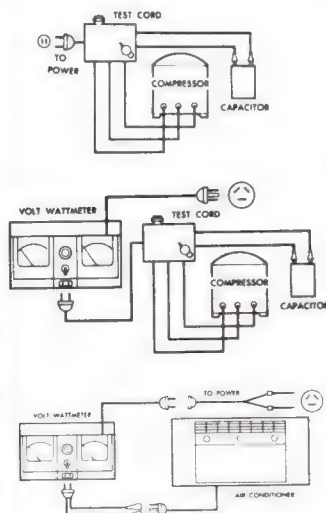
ACCURACY: $\pm 3\%$ of full scale

METER: $3\frac{1}{2}''$

VOLT, WATT, AMP CHECK—Most electrically powered devices are marked watts (W) which they consume at a definite voltage (V). This is sometimes expressed as volt-amperes (VA) as Watts = Volts \times Amperes. This instrument allows a serviceman to read volts and watts simultaneously. For amperage reading, just divide the wattage reading by the voltage reading as Amperage = Watts \div Volts.

WIDE RANGE APPLICATION—With the two voltage ranges and three wattage ranges, this instrument can be used on a wide range of electrically powered products found in the appliance field today. It has the following current ratings: Momentary—40 amps, Intermittent—20 amps. max., Normal—10 amps.

FOR FIELD USE—Designed for the serviceman to take into the home, the instrument provides a quick way to locate hidden shorts and overloaded circuits. Shows faulty power line wiring as well as proper functioning of the appliance under test.



With the use of these simple adapters, the Volt-Wattmeter can be used on 260V such as window air conditions, ranges, dryers, etc.

CHECK WINDINGS CONTINUITY—Connect start, run and common leads to the compressor terminals—and capacitor leads connected to a new or rated capacitor (on capacitor type compressors) and a bulb placed in the female socket. The cords will check for open start and run windings. On non-capacitor type compressors hook capacitor leads together.

OPERATE COMPRESSOR—With the same hookup as above and a fuse in the female socket the cords will start an operative compressor and throw suspicion on the capacitor or some other component of the electrical system as being inoperative.

READ START AND RUN WATTAGE—With the same hookup as above and the test cord plugged into a Volt-Wattmeter it is possible to determine the start wattage pull as well as the run wattage pull. Low voltage will also be indicated which could be the cause of the trouble.



12865

Volts: 130-260
Watts: 0-500, 0-2500, 0-5000



12865-1
ADAPTERS

COMPRESSOR TEST CORDS



12476
(110 Volts Test Cord)



12263
(220 Volts Test Cord)

"Sensemeter" Electronic Leak Detector



12000

115 Volts AC 60 Cycle

Replacement Parts

12000-1

Ion Element Assembly

12000-2

Filters (pkg. of 12)

INTRODUCTION

The "Sensemeter" Electronic Leak Detector will detect leaks of halogen gas such as refrigerants 12, 22, 114, 500, etc., and other halogen based gases. It will locate the point of the leak by means of visible (meter) and audible (squeal) signals.

DESCRIPTION

The Leak Detector may be used continuously, simply by interchanging the two ion sources supplied with each instrument. A one hour maximum "on" time is recommended for each ion source, plus an equal period to allow the source to "cool." Response time of the instrument is one second. It operates on 115 volts AC and has complete "solid state" circuitry. This eliminates all tubes and introduces a Leak Detector of rugged, durable construction. The control knobs and meter are mounted on top to facilitate easier balance settings. The "Sensemeter" is light, compact and housed in a top-grain, contoured, leather carrying case (complete with shoulder strap). The audible speaker and visual meter react simultaneously when a refrigerant leak is located.

PRINCIPLE OF OPERATION

The sensitive element is a simple two electrode discharge device. One electrode is a heated wire which is threaded through two ceramic tubes. The other electrode is a wire, wound into a cylindrical shape which surrounds the heated wire electrode. The ceramic tubes are a source of alkali atoms. When alkali atoms are released from the ceramic and come in contact with the hot filament, they become ionized and are attracted as positive ions to the negatively charged ion collector electrodes. The flow of the electric current is the basis of detection in this instrument. When air is drawn from the probe area by the pump and is forced through the sensitive element, the electric current increases if halogen based gases are present. This increase in electric current is converted into the signal which drives the speaker and the meter, thus giving both audible and visual indication.

Duo-Test® Propane Torch and Halide Leak Detector



Propane Leak Detector

The Robinair Halide Leak Detector uses the same cylinder as the Robinair Torch. Cylinders are self-sealing so the burner unit may be removed at any time. Safety release valve gives extra protection — safer storage.

MODEL PLD-12

Locate non-combustible HALIDE refrigerant gas leaks quickly and accurately. Even leaks of minute concentration cause a visible change of color and intensity of flame in the chimney. You get long burning time from each disposable fuel cylinder, easy-to-change reaction plates, long-lasting flexible metal hose connection, all brass burner unit for more dependable service.



Torch Tip And Propane Cylinder Kit

MODEL PT-10

Life-time all brass pencil burner gives a long, narrow, needle point flame. Concentrates heat where it's needed. Ideal for soldering, sweating copper. Burns up to 15 hours on a fuel cylinder. The fuel cylinder meets I.C.C. specifications and can be sent through the U.S. Mails. Fuel Content — 14.1 ozs. by weight or 26.7 fluid ozs.

Replacement Parts



**PT-1
REPLACEMENT
PENCIL
FLAME
BURNER**



**PC-9
REPLACEMENT
PROPANE
FUEL
CYLINDER**



**PLD-3
REPLACEMENT
LEAK
DETECTOR
HEAD**

This fuel cylinder meets I.C.C. specifications and can be sent through the U.S. Mail.

Thermocouple Vacuum Gauge for Use with High Vacuum Pumps

13010
(1000-0 Microns)



13010-1

A high quality, rugged, fast response Thermocouple Vacuum Gauge priced for the field serviceman's pocket. This portable gauge operates by measuring the heat conductivity of any gas remaining in an evacuating system. The gauge's sensing elements consist of a small heater and a precision thermocouple to measure the heater temperature. As the amount of gas in a system decreases, there is less heat conducted away from the heater and the increased heat on the thermocouple reads as a correspondingly low pressure.

This instrument operates off D.C. power. It uses 1 standard "D" size battery. Variances due to line voltage fluctuations are eliminated. Simple to operate — 1. Turn left hand knob to "calibrate" position. 2. Adjust right hand knob until meter reads the milliamp output stamped on the gauge tube. 3. Turn left hand to read position and read vacuum in microns.

REPLACEMENT GAUGE TUBE—This vacuum tester comes equipped with one 13010-1 vacuum gauge tube which is a fast response, rugged, metal type. It is suggested that a new spare gauge tube be purchased for a comparison "standard" as well as replacement unit.

Capacitor Analyzer

13015



Read Microfarads Direct on Three Scales: .1-20; 21-49 and 50-2000 Mfd.

SPECIFICATIONS

Three Scale: .1 - 20 Mfd.

21 - 49 Mfd.

50 - 2000 Mfd.

Power Factor % Selector Range: 0 - 20

Volts: 115 VAC or 230 VAC 50-60 Cycle (toggle switch option)

Weight: 5 lbs.

Size: 9" x 6" x 4"

Case: Durable Texon

An accurate instrument that measures both capacitance and power factor. Performance of any electrolytic capacitor changes with shelf or use life and should be analyzed for sufficient capacitance and related power factor.

- Incorporates a "solid state" rectifier resulting in an instrument built for rugged use.
- Each capacitor tested is automatically discharged when the spring return toggle switch is returned to the "off" position.
- Test leads are void of voltage until test switch is advanced to "on" position.
- Uses a bar type eye tube as indicator.
- Checks capacitors for being shorted, open or intermittent.

Duo-Seal® High Vacuum Pumps

Duo-Seal pumps are recognized by industry as top quality two-stage rotary high vacuum pumps.

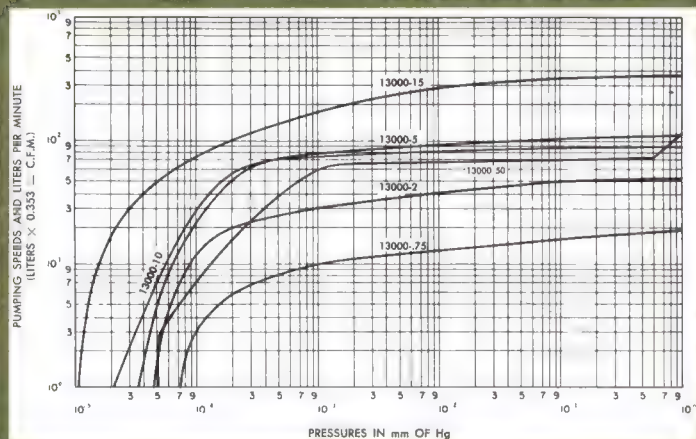
All models draw down to .1 micron*. Offered are models for .75 CFM, 2 CFM, 5 CFM, 10 CFM, 15 CFM and 53 CFM capacities. A patented feature, called the Duo-Seal, provides a by-pass at the seal to carry off the last increment of gas which may escape the exhaust port. This operation is repeated twice each revolution, or at least 600 times per minute, and with each repetition, the pressure in the vessel connected to the intake is reduced, thus forming a higher and higher vacuum.

These pumps are all charged with oil, ready to use, and come equipped with electrical cord and switch.

Pump No.	Capacity	Efficiency*	Motor	Weight	Belt Guard	Exhaust Filter
13100-.75	.75 C.F.M.	.1 micron	1/3 H.P.	66 lbs.	No. 13001	13006
13100-2	2 C.F.M.	.1 micron	1/2 H.P.	100 lbs.	No. 13002	13006
13100-5	5 C.F.M.	.1 micron	1/2 H.P.	125 lbs.	No. 13002	13007
13000-10	10 C.F.M.	.1 micron	1 H.P.	152 lbs.	No. 13002	13007
13000-15	15 C.F.M.	.1 micron	1 H.P.	195 lbs.	Standard	None
13000-50	53 C.F.M.	.1 micron	3 H.P.	661 lbs.	Standard	None

*Vent Closed — McLeod Gauge
See price list for replacement parts

DUO-SEAL VACUUM PUMP PERFORMANCE TYPICAL PUMPING SPEEDS OF TWO-STAGE DUO-SEAL PUMPS AT VARIOUS PRESSURES.

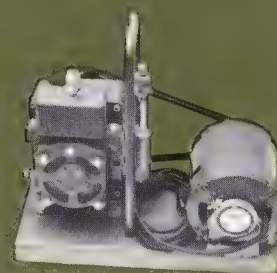


OIL. The best results may be obtained from a rotary mechanical oil pump only when oil of very low vapor pressure is used. One of the important functions of the oil in a vacuum pump is to absorb unwanted vapors passing through the pump and, therefore, oil should be changed frequently for best results.

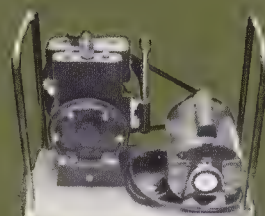
OIL

13003	13004	13005
1 Qt.	1 Gal.	5 Gal.

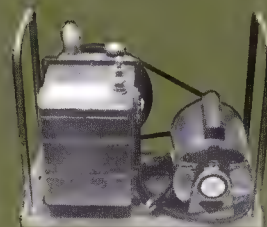
WRITE FOR BROCHURE FORMS 61-16R AND 64-1R



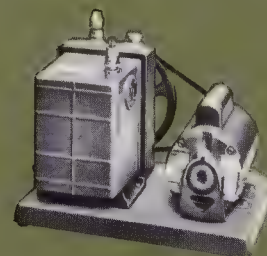
13100-.75



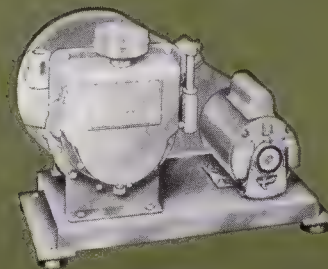
13100-2



13100-5



13000-10



13000-15

EVACUATING AND DEHYDRATING EQUIPMENT

Vacuum Pumps And U-Tube Manometer



12895
Inch Scale

These rotary vane vacuum pumps will pull down a refrigerant system to within .3 in. of barometric pressure or 29.62 in. mercury. According to standard steam tables water will boil at 45°F. when pressure is reduced to this level. For servicemen working on domestic refrigerant systems such as window air conditions, refrigerators, freezers, etc., where ambient temperatures exceed 45°F. these pumps are the most practical units available. If the tempera-

ture falls below 45°F., heat lamps can be directed on the system being dehydrated to assist in removing the moisture.

The design of the unit includes a motor over-load protector and a three way starting switch which provides the desired protection of the motor windings. Hand valve with teflon seat assures positive shutoff. The deluxe version includes manifold, gauges and charging lines.

PUMP SPECIFICATIONS

Part No.	Efficiency	Capacity	Motor	Weight	Size	Box
12467	29.62 In. Mercury	.8 CFM	110V-¼ H.P.	41 Lbs.	12" x 10" x 13"	Metal-Blue
12496	29.62 In. Mercury	.8 CFM	110V-¼ H.P.	44 Lbs.	12" x 10" x 13"	Metal-Blue

The 12800 standard Meriam 5" U Tube Manometer along with a thermometer will enable a serviceman to determine if the pump is pulling a vacuum sufficient to boil water. It is equipped with a metric scale for finer readings that can be converted to inches. (1 in. = 2.54 CM = 25.4 MM.)

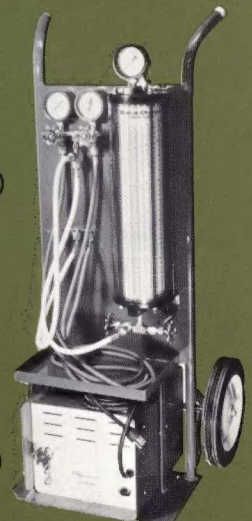
Charging Station

TAKE YOUR SERVICE SHOP TO THE JOB

These portable charging stations are designed as the ideal service aid for appliance and automotive repair shops. They are also used by some servicemen to make home repair calls. Utilizing the 12467 Vacuum Pump and one of the Dial-a-Charge Charging Cylinders along with the necessary manifold, gauges, lines, etc., these units require only one hookup to dehydrate and recharge a refrigerant system. For appliance repair shops it is ideal for window air conditioners, freezers, refrigerators, etc. as it is mobile and can be taken to the job. This same feature makes it the only practical piece of equipment available for garage mechanics working on automotive air conditioners.

The carts are constructed with 1" tubular steel handles, framing rigid sheet metal support plates and mounted on 1½" x 10" semi-pneumatic, ball-bearing wheels. A strap and ledge are provided on the rear side of the cart for mounting refrigerant drums.

- 12490H**
(Heated)
- 12490**
(2.5 lb. Cyl.)
- 12560H**
(Heated)
- 12560**
(5 lb. Cyl.)
- 12835H**
(Heated)
- 12835**
(10 lb. Cyl.)



SPECIFICATIONS

Part No.	Cylinder Capacity	Pump Capacity	Pump Efficiency	Weight	Height	Width	Depth	Hoses		
								Length	B.P.S.I.	W.P.S.I.
12490	2.5 Lb.	.8 CFM	.3*	80 Lbs.	43 In.	20 In.	17 In.	6 Ft.	2,000 Lb.	500 Lb.
12560	5 Lb.	.8 CFM	.3*	82 Lbs.	43 In.	20 In.	17 In.	6 Ft.	2,000 Lb.	500 Lb.
12835	10 Lb.	.8 CFM	.3*	85 Lbs.	43 In.	20 In.	17 In.	6 Ft.	2,000 Lb.	500 Lb.

*Within .3 in. of barometric pressure or 29.62 at 29.92 barometric pressure.

Dial-A-Charge® Charging Cylinders

DUPLICATE FACTORY ACCURACY WHEN RECHARGING SYSTEMS IN THE FIELD



12550
(5 lbs.)

12550-H
(Heated)
(5 lbs.)

Dial-A-Charge Charging Cylinders permit the serviceman to easily compensate for volume fluctuations resulting from temperature variations. They allow the serviceman to buy refrigerant in economical drums and provide accuracy in recharging eliminating over and under charging which might require call backs.

These cylinders are available with or without heating elements. The use of the cylinders with the heating element allows the serviceman to overcome equalization of pressure between the system and the charging cylinder and reduce time required to recharge.

Cylinders with heating elements eliminate the need to warm with a heating blanket, or immerse the cylinder in a container of hot water or heat the base with a torch.

After connecting the male plug of the heating element to a 110V AC outlet, the method for use is the same as with the unheated models.

Simply "dial" the calibrated plastic shroud so the pressure heading at the top of the shroud corresponds to the gauge reading and the cylinder is ready to charge. Cylinders have shut-off valves with teflon seats for finger tip control in charging systems to factory specifications. Both heated and unheated cylinders are accurate to ¼ oz. of refrigerant when charging system.

Patent No. 3,053,101

Part No.	Capacity	Height	Weight	Calibrated and Coded For				Increment Calibrations	Accuracy
				R-114	R-12	R-22	R-500		
12206 12206-H	2.5 Lbs.	27.5 In.	12 Lbs.	Yes	Yes	Yes		¼ Oz.	± ¼ Oz.
12550 12550-H	5 Lbs.	27.5 In.	15 Lbs.		Yes	Yes	Yes	½ Oz.	± ¼ Oz.
12750 12750-H	10 Lbs.	27.5 In.	18 Lbs.	Yes	Yes	Yes	Yes	1 Oz.	± ¼ Oz.

Cases

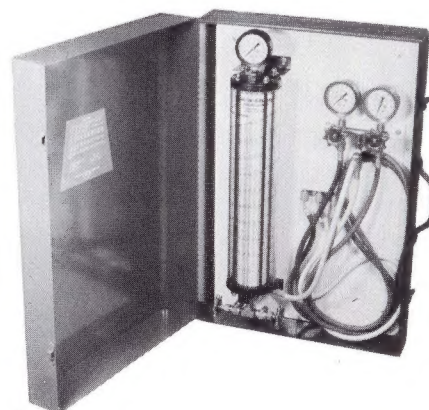
12390
(2.5 lb. capacity —
Unheated)

12390H
(Heated Cylinder)

12503
(5 lb. capacity —
Unheated)

12503H
(Heated Cylinder)

By combining a Dial-a-Charge Charging Cylinder—with the Gauges, Manifold and Charging Lines, these cases make available to servicemen the complete hookup required to field charge a refrigerant system. The durable metal carrying case affords the necessary protection for the Charging Cylinder and provides a carrying case and mounting board for the related required service tools.





ROBINAIR MANUFACTURING CORP.
Montpelier, Ohio 43543